

FIG. 1

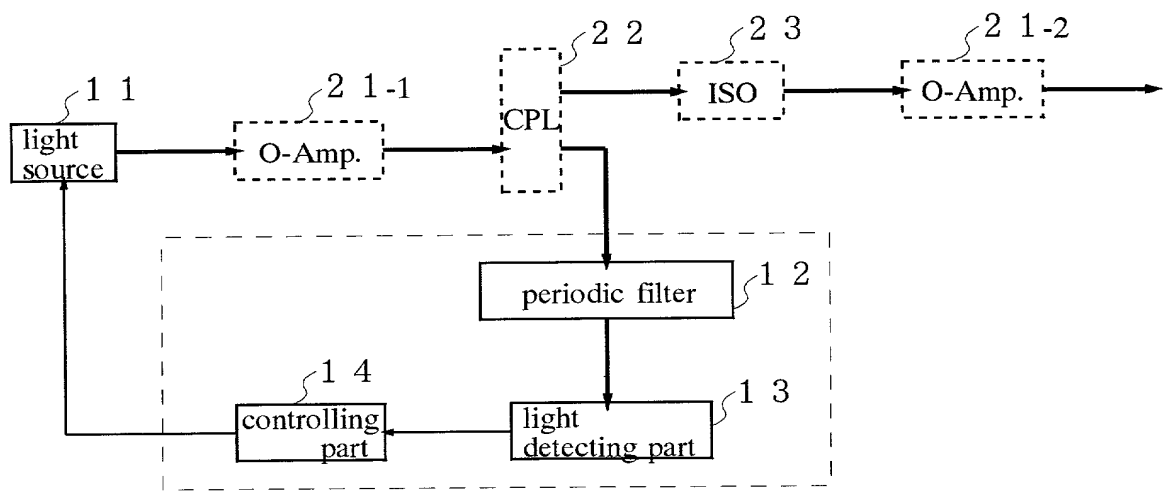
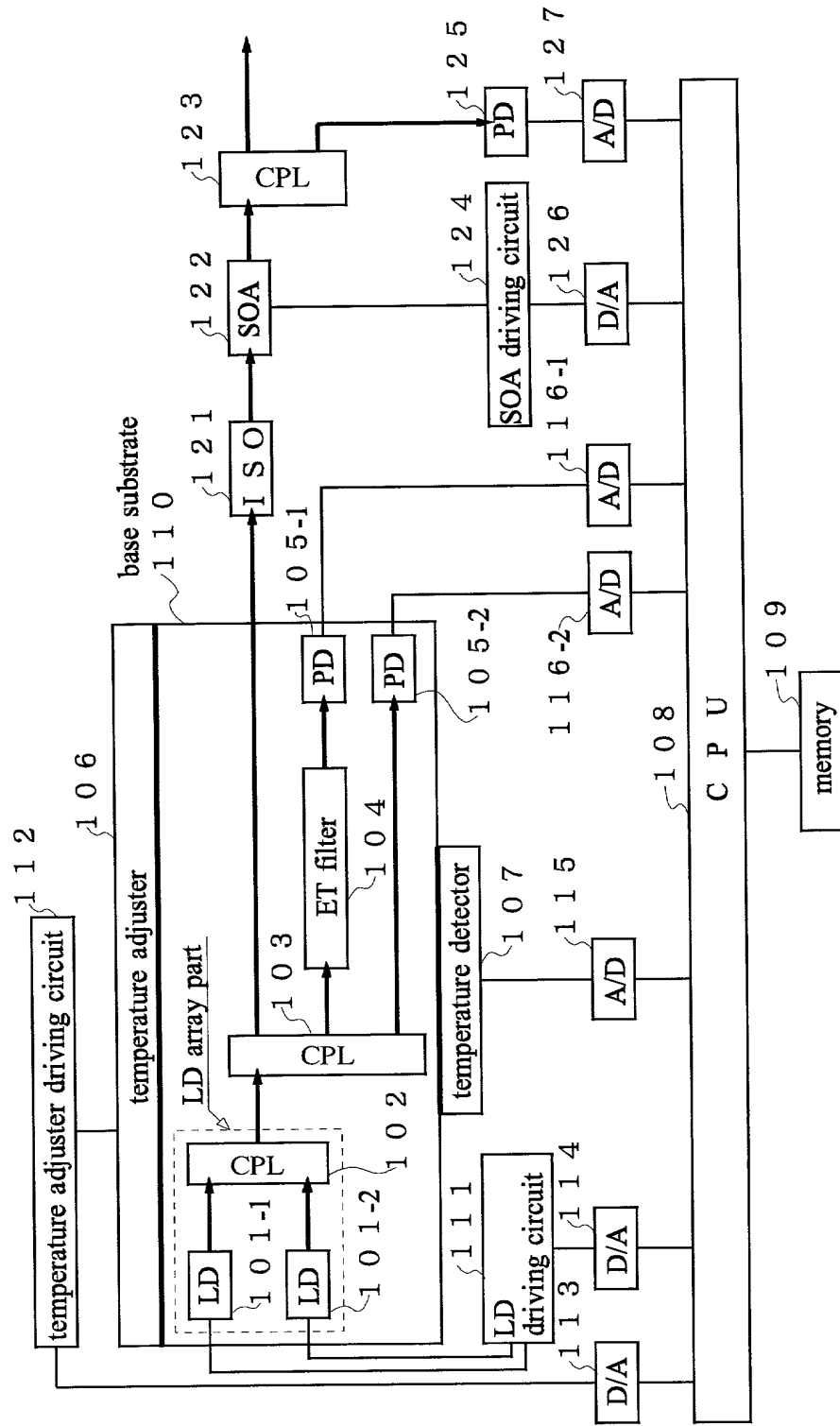


FIG. 2



F I G . 3

device temperature (°C)	channel	grid		LD
		(n m)	(T H z)	
1 6	c h 0	1 5 3 5 . 8 2	1 9 5 . 2 0	LD101-1
2 4	c h 1	1 5 3 6 . 6 1	1 9 5 . 1 0	
3 2	c h 2	1 5 3 7 . 4 0	1 9 5 . 0 0	
4 0	c h 4	1 5 3 8 . 1 9	1 9 4 . 9 0	
1 6	c h 5	1 5 3 8 . 9 8	1 9 4 . 8 0	LD101-2
2 4	c h 6	1 5 3 9 . 7 7	1 9 4 . 7 0	
3 2	c h 7	1 5 4 0 . 5 6	1 9 4 . 6 0	
4 0	c h 8	1 5 4 1 . 3 5	1 9 4 . 5 0	

FIG. 4

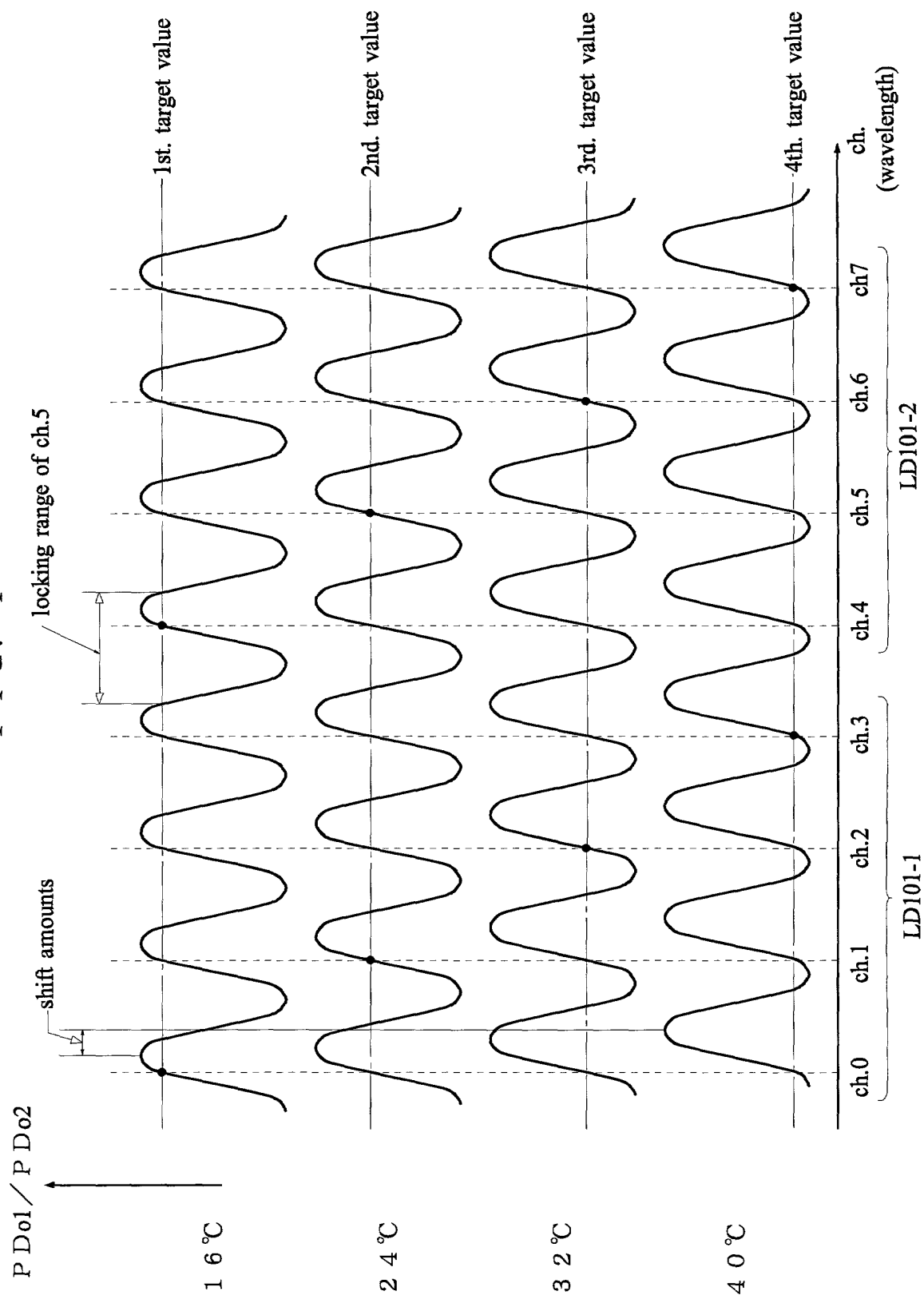


FIG. 5

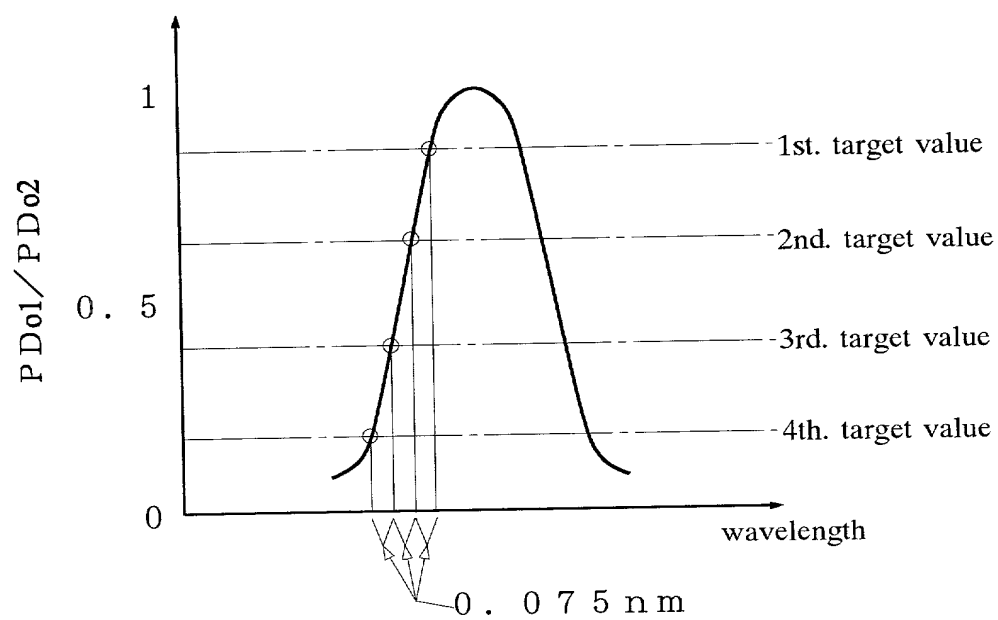


FIG. 6

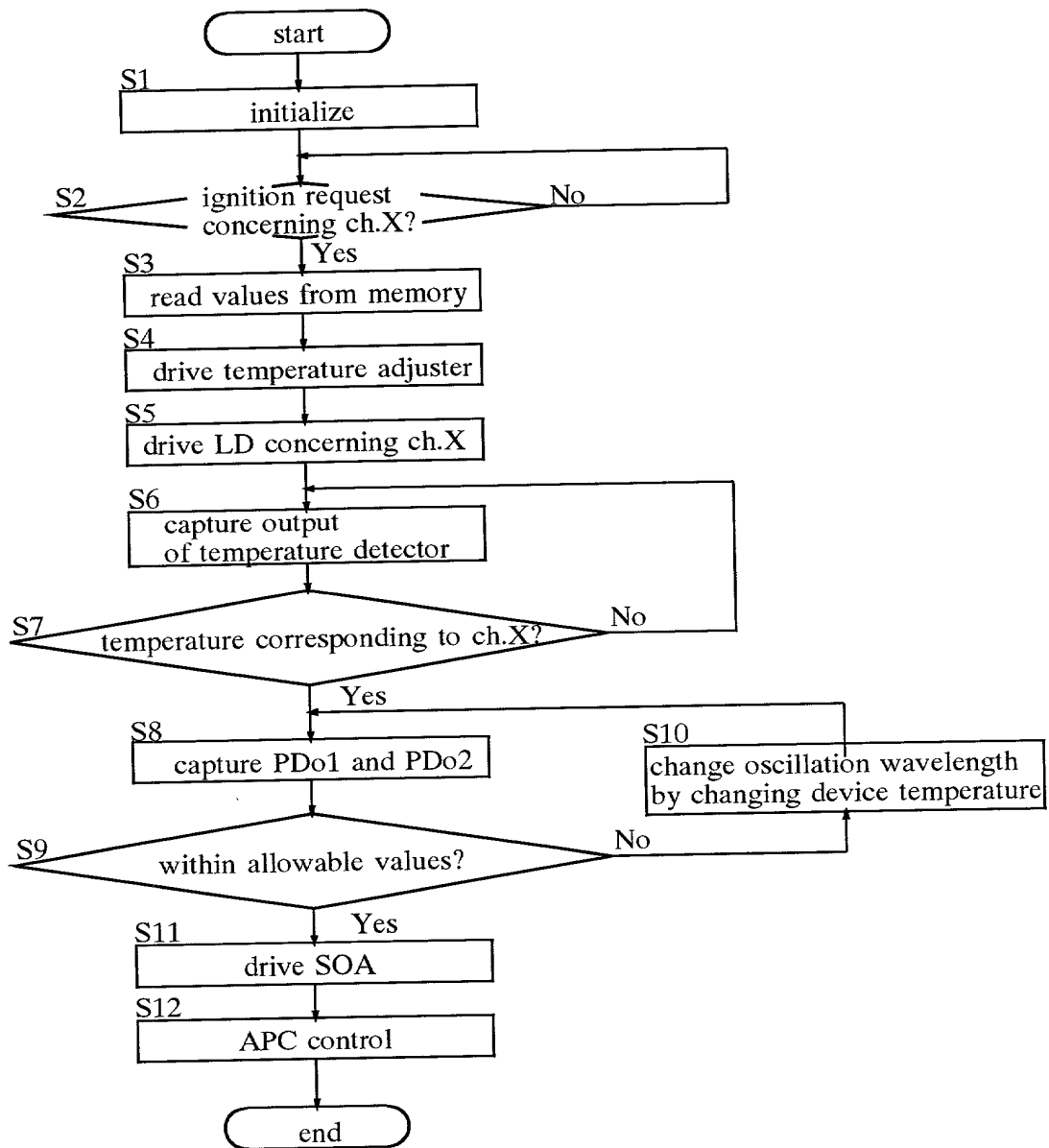


FIG. 7

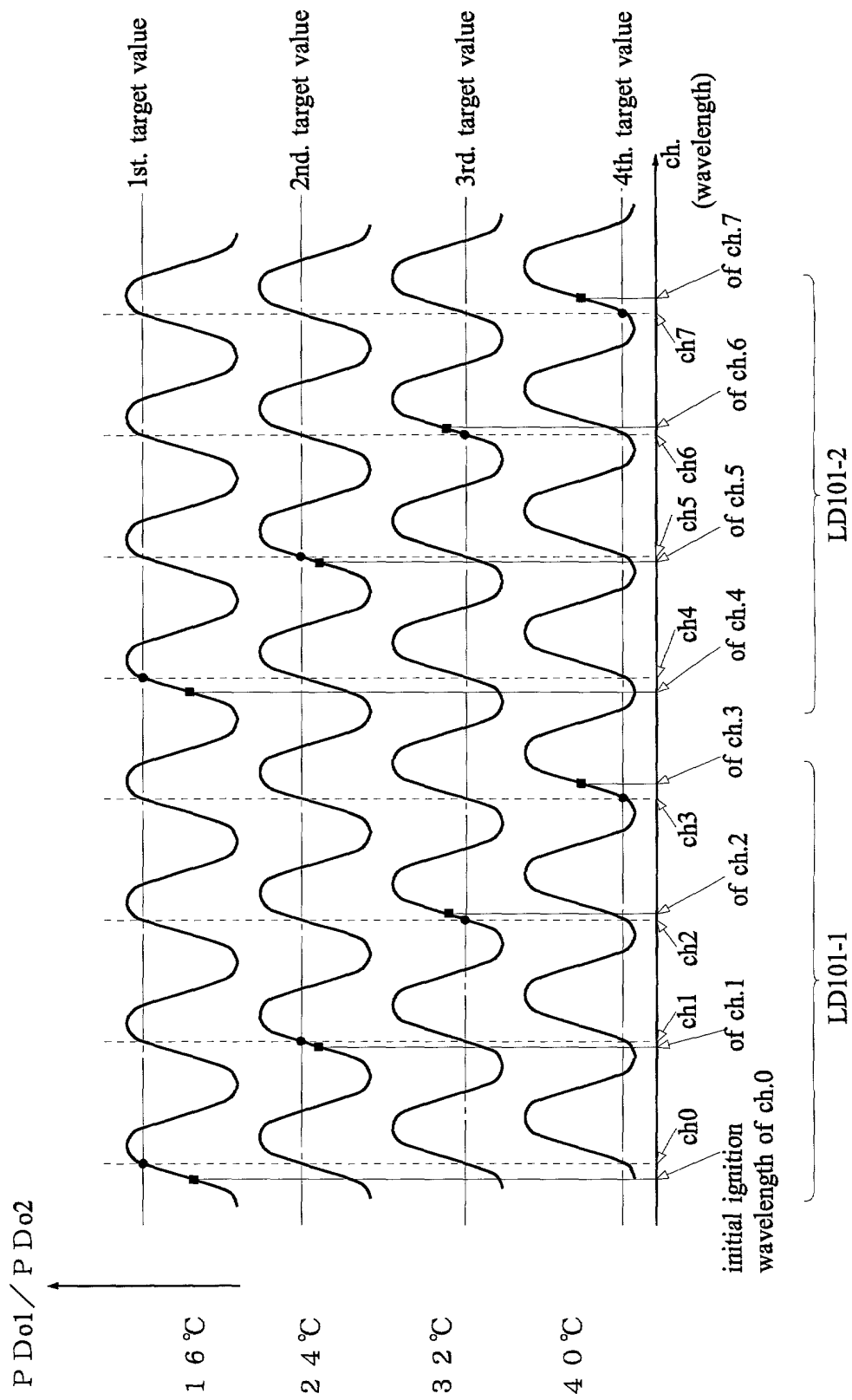


FIG. 8

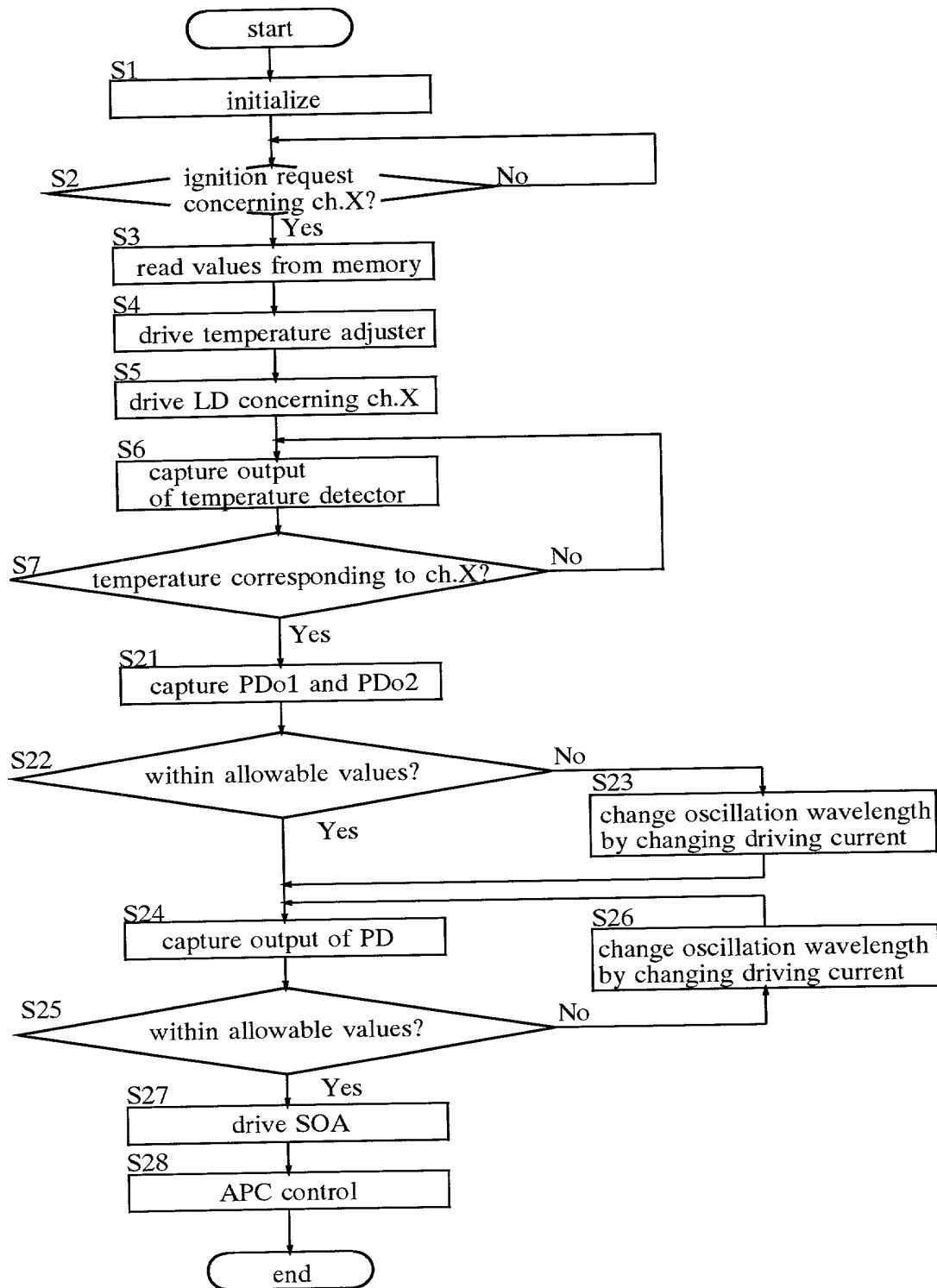


FIG. 10

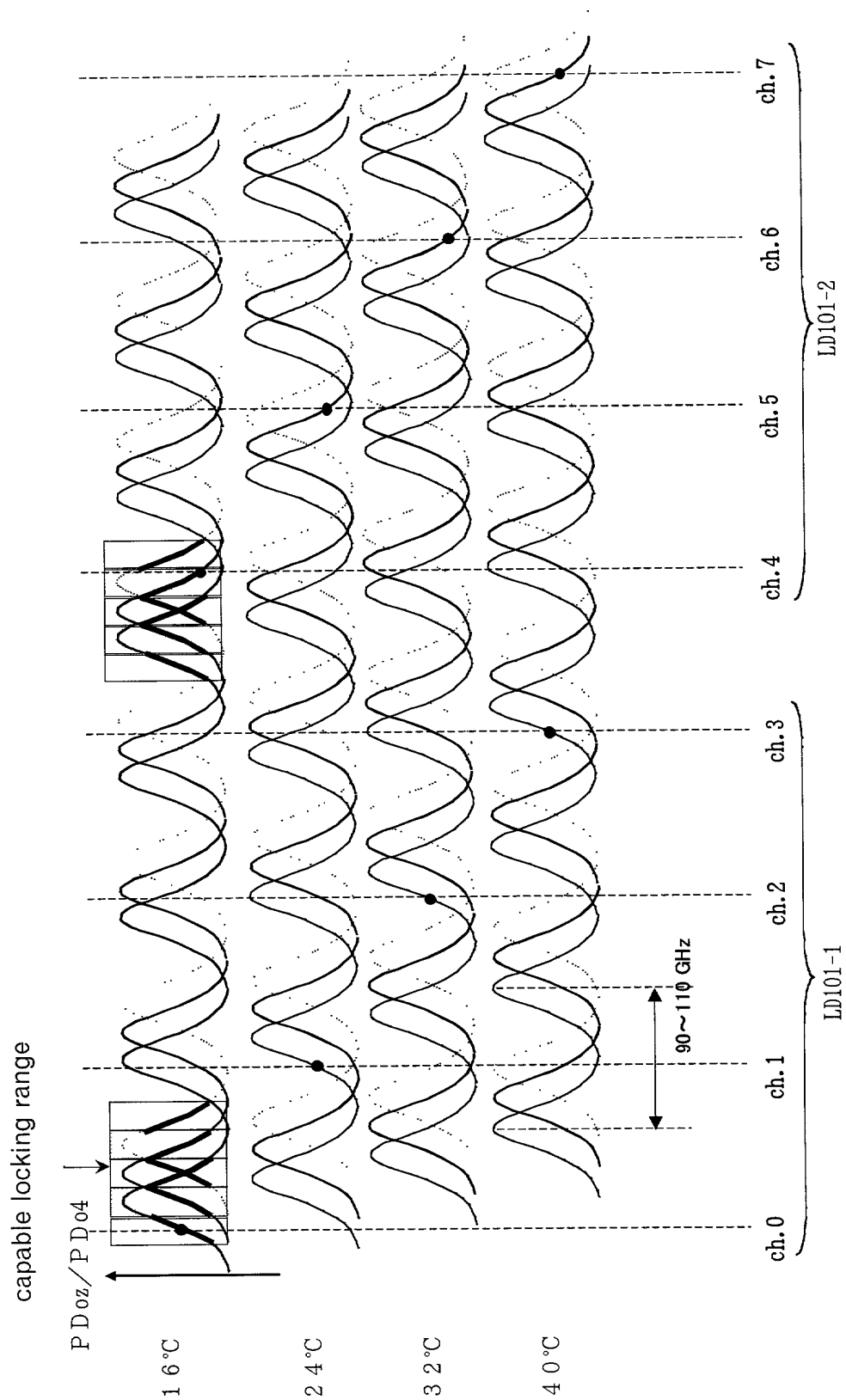


FIG. 11

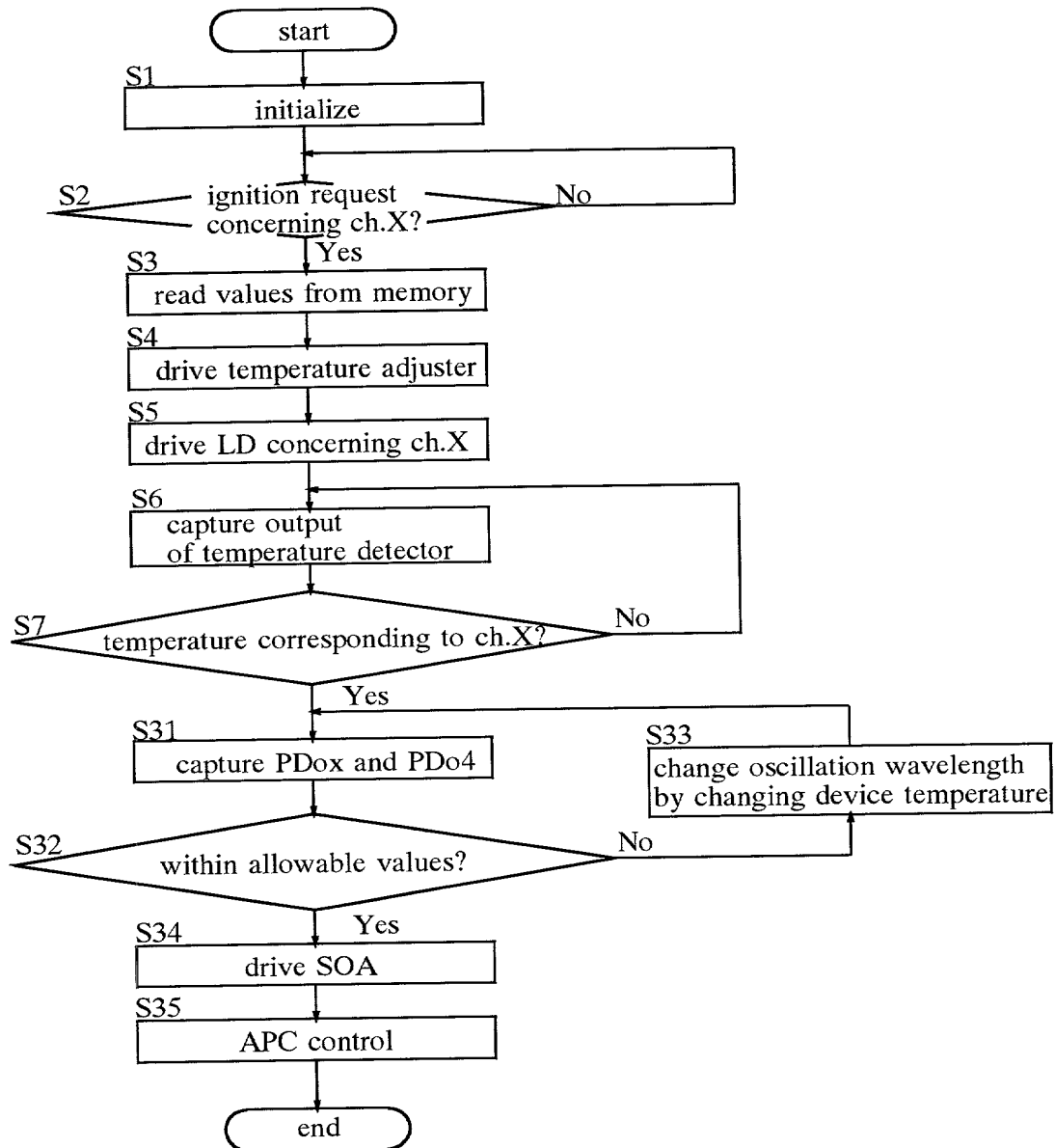


FIG. 12

device temperature (°C)	channel	grid		LD
		(nm)	(THz)	
16	ch0	1535.82	195.20	LD201-1
24	ch1	1536.61	195.10	
32	ch2	1537.40	195.00	
40	ch4	1538.19	194.90	
16	ch5	1538.98	194.80	LD201-2
24	ch6	1539.77	194.70	
32	ch7	1540.56	194.60	
40	ch8	1541.35	194.50	
16	ch9	1542.14	194.40	LD201-3
24	ch10	1542.94	194.30	
32	ch11	1543.73	194.20	
40	ch12	1544.53	194.10	
16	ch13	1545.32	194.00	LD201-4
24	ch14	1546.12	193.90	
32	ch15	1546.92	193.80	
40	ch16	1547.72	193.70	
16	ch17	1548.51	193.60	LD201-5
24	ch18	1549.32	193.50	
32	ch19	1550.12	193.40	
40	ch20	1550.92	193.30	
16	ch21	1551.72	193.20	LD201-6
24	ch22	1552.52	193.10	
32	ch23	1553.33	193.00	
40	ch24	1554.13	192.90	
16	ch25	1554.94	192.80	LD201-7
24	ch26	1555.75	192.70	
32	ch27	1556.55	192.60	
40	ch28	1557.36	192.50	
16	ch29	1558.17	192.40	LD201-8
24	ch30	1558.98	192.30	
32	ch31	1559.79	192.20	
40	ch32	1560.61	192.10	

FIG. 13

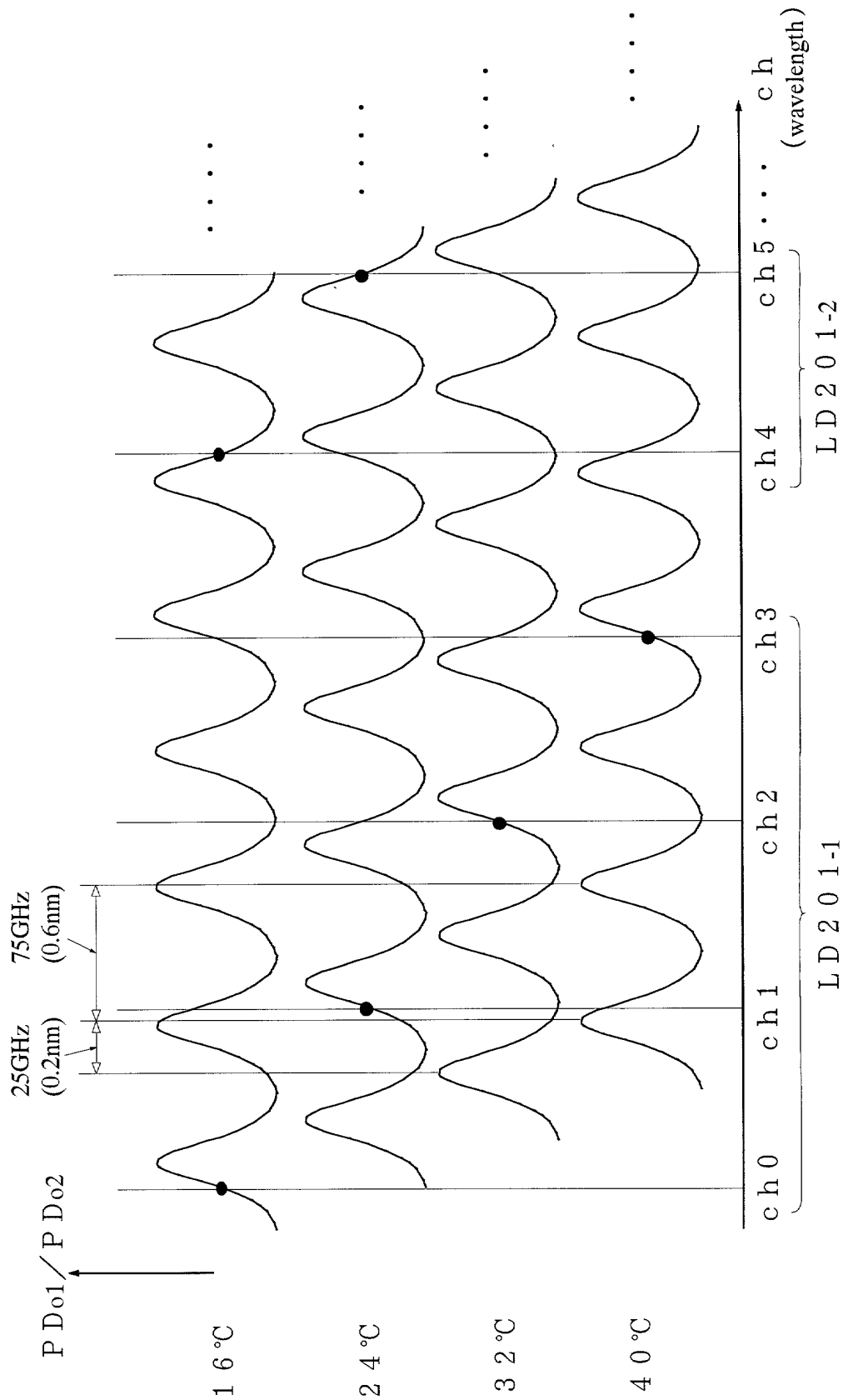


FIG. 14

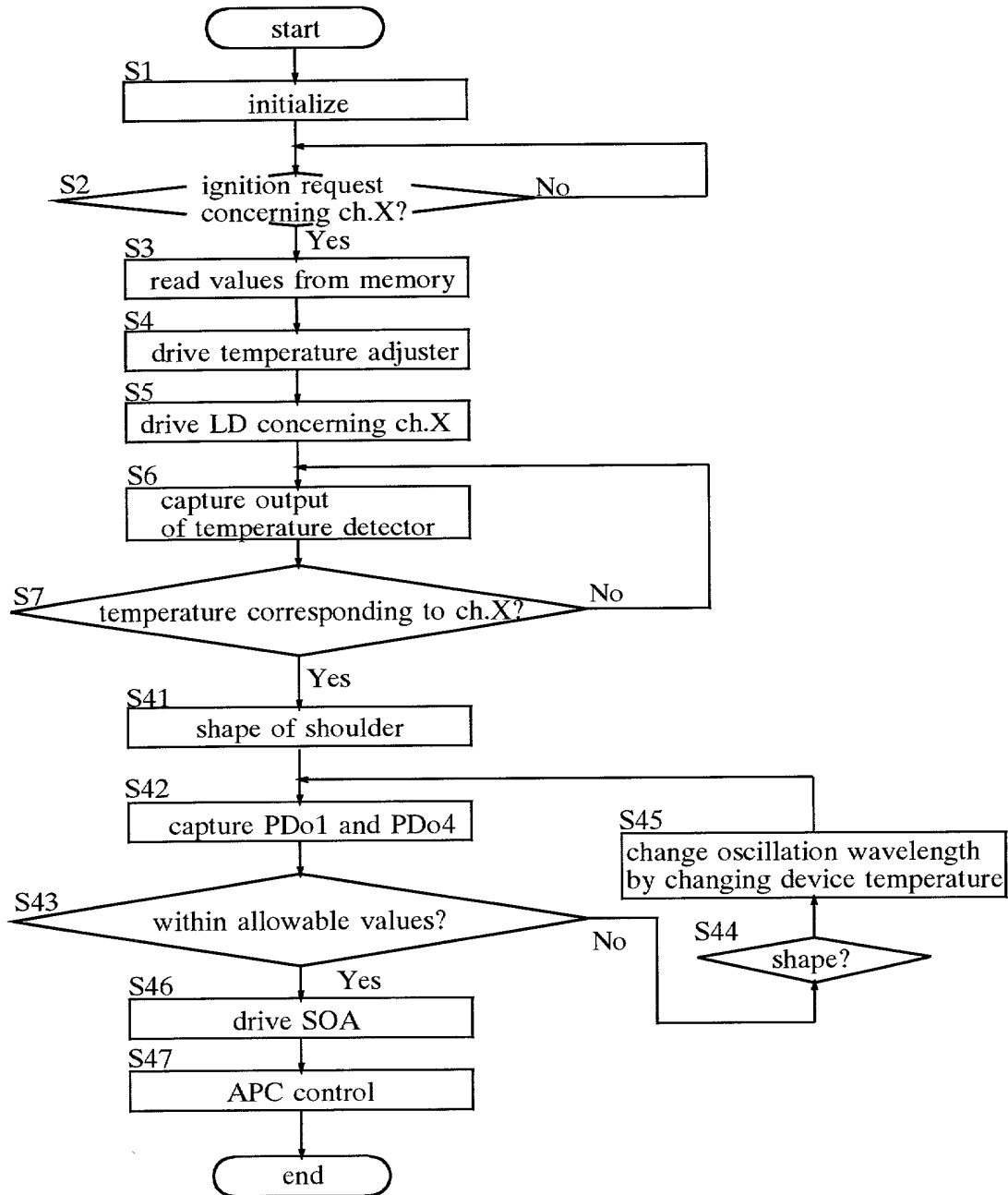


FIG. 15

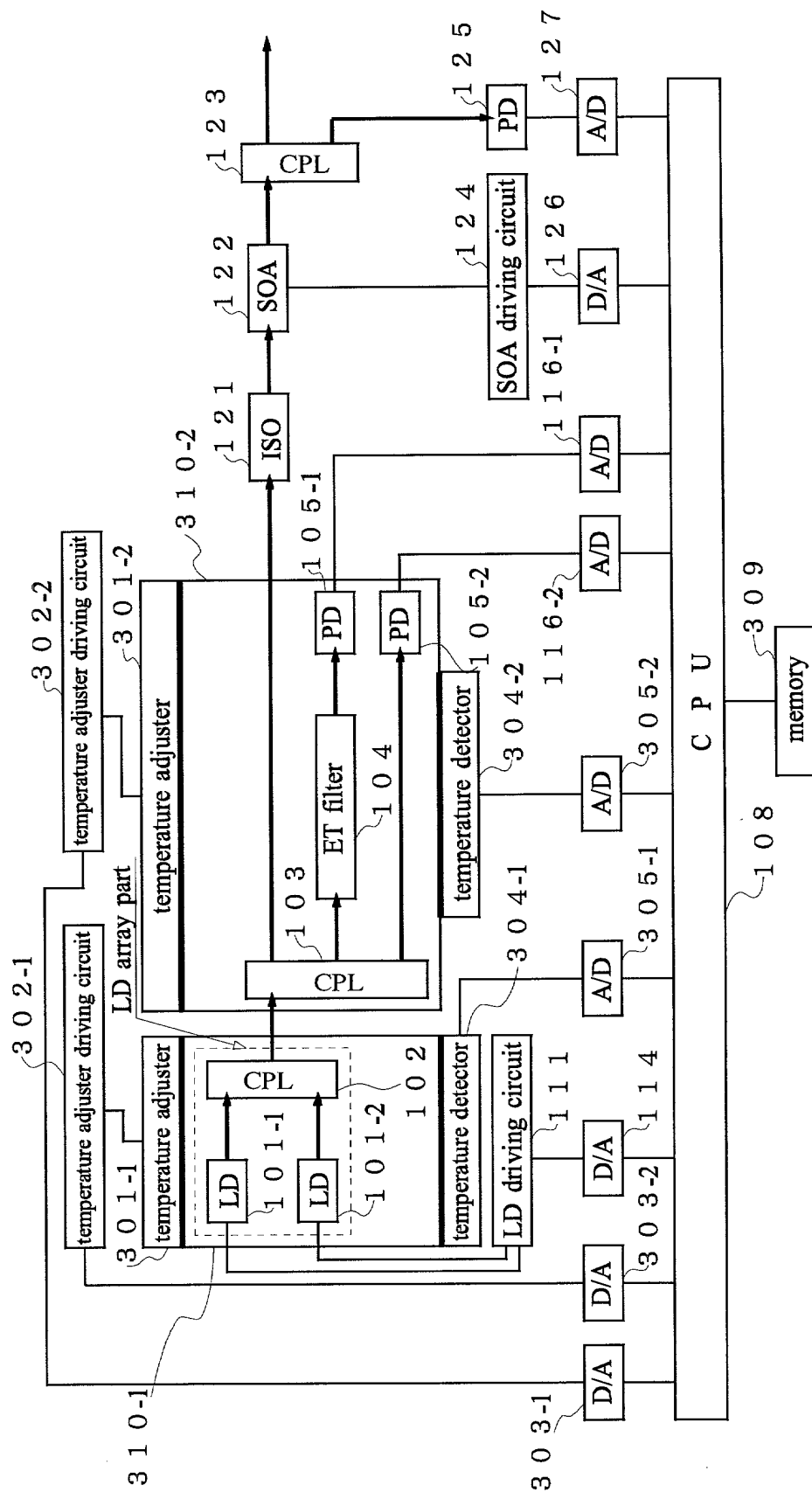


FIG. 16

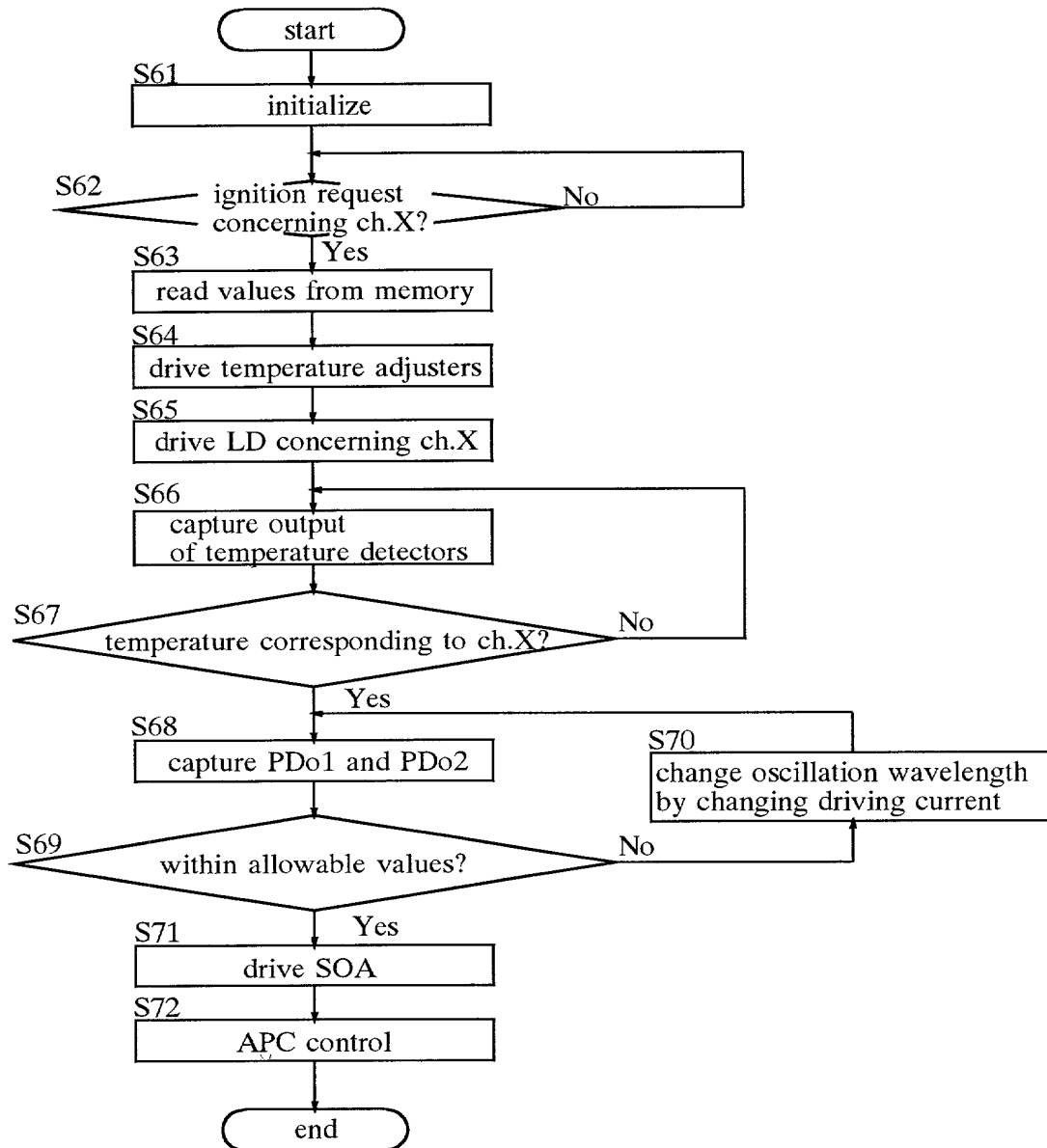


FIG. 17

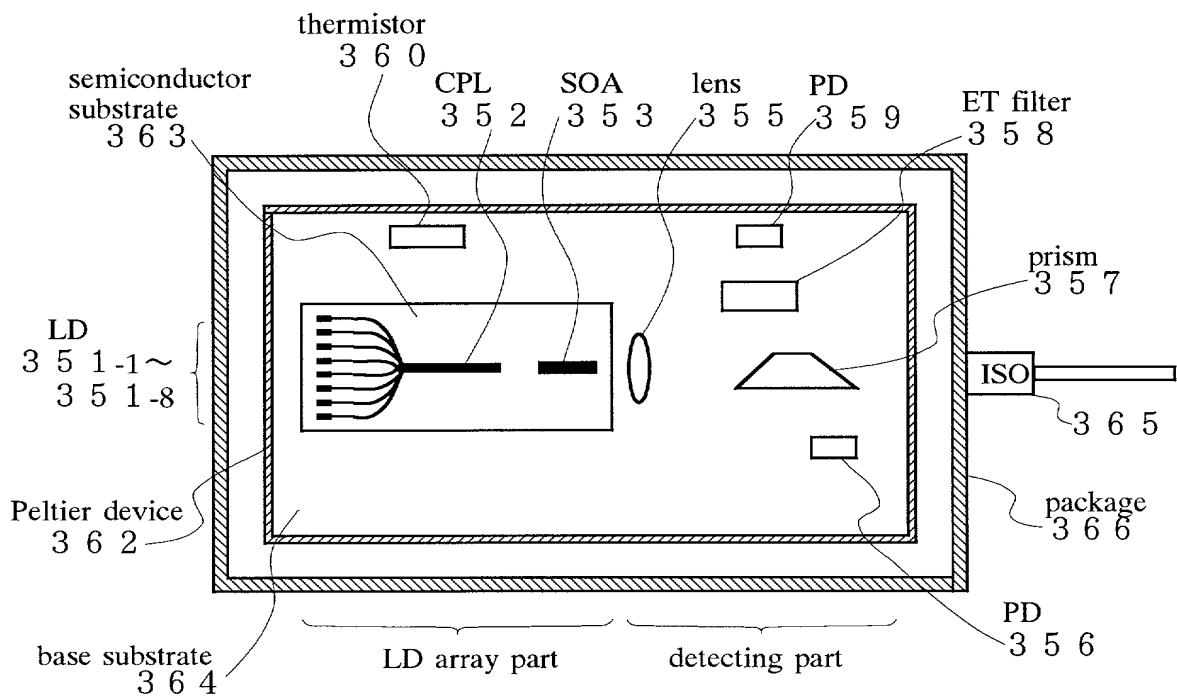


FIG. 18

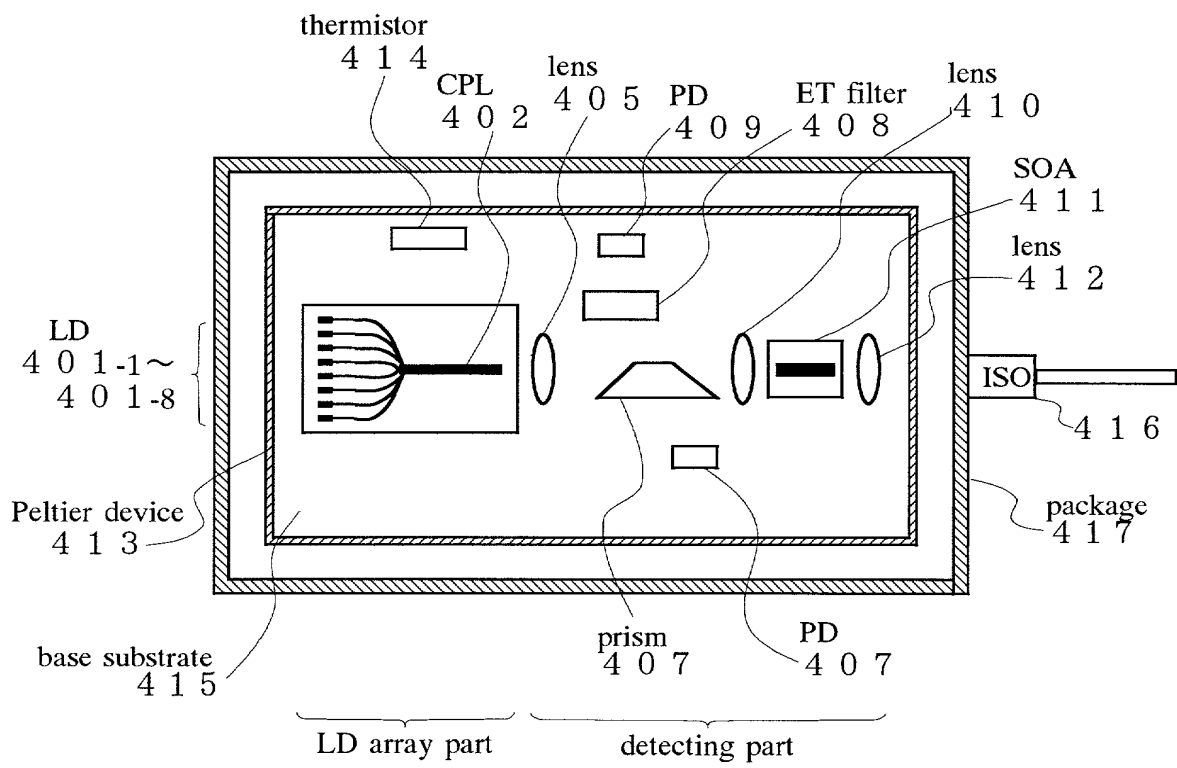


FIG. 19

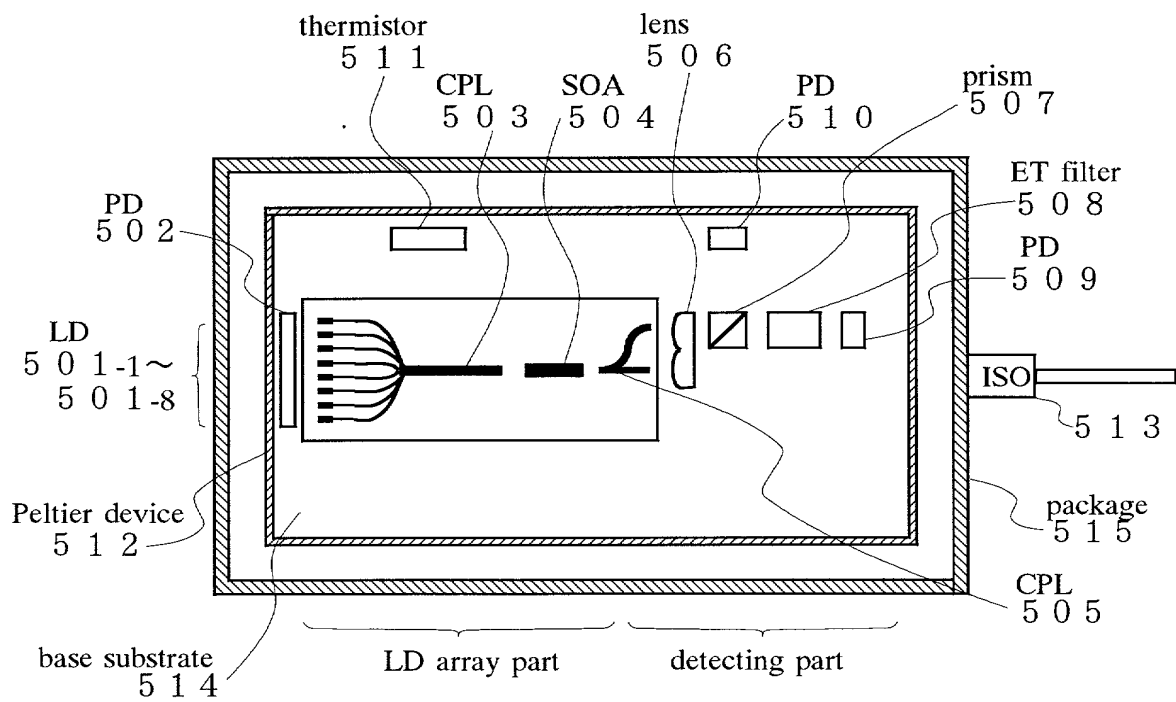
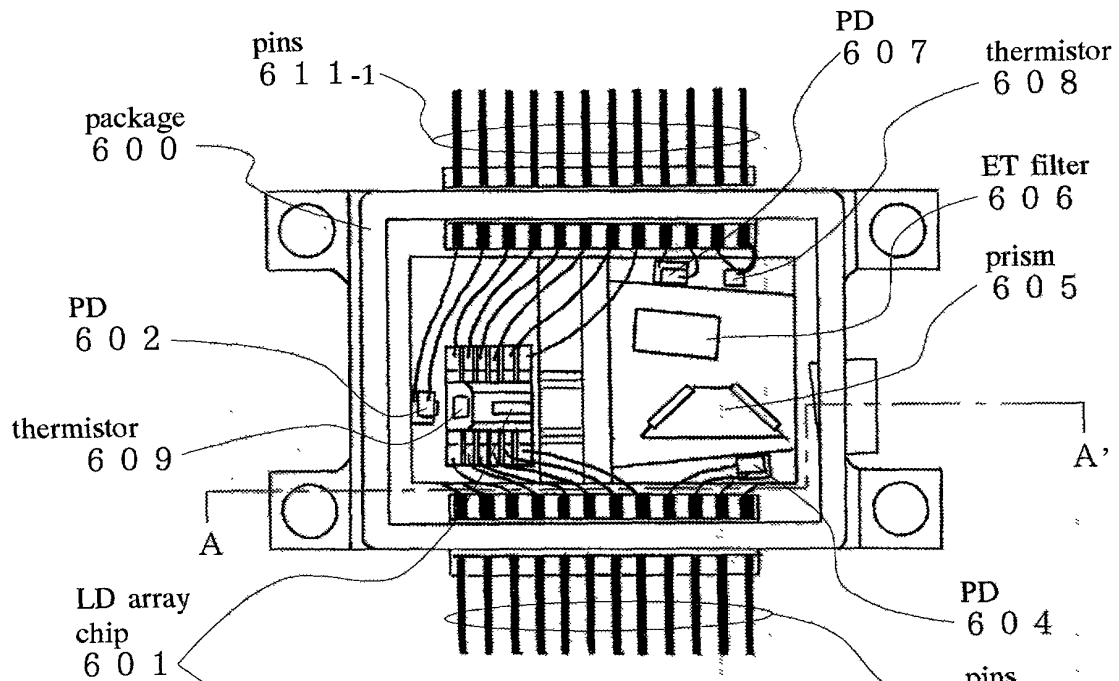


FIG. 20

A



B.

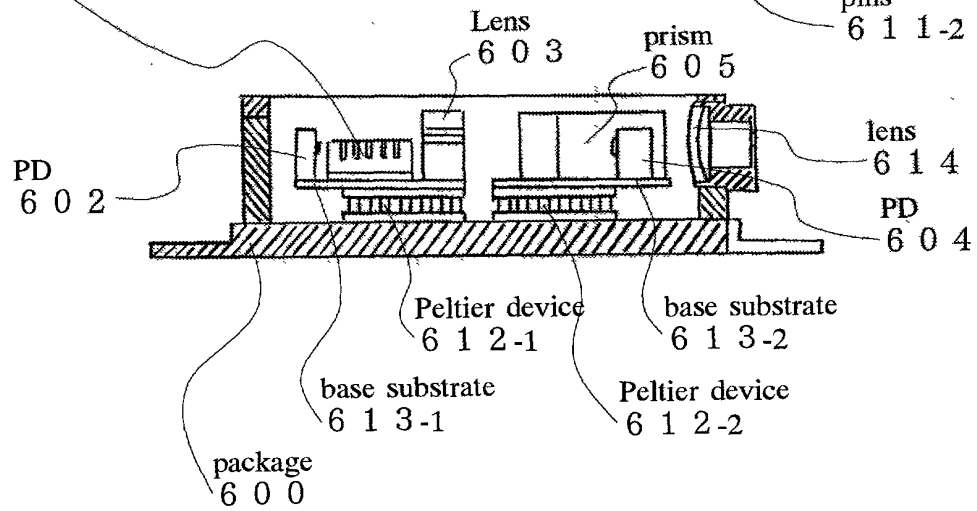
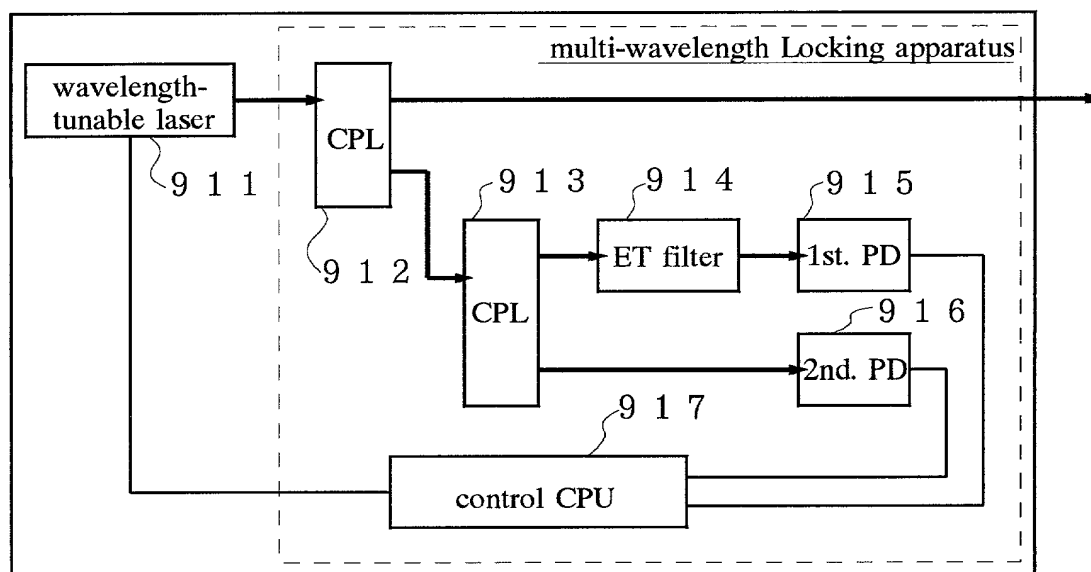
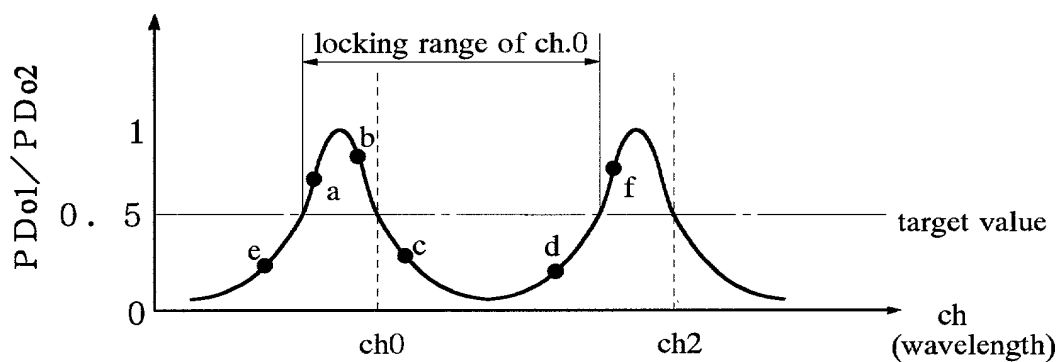


FIG. 21
Related Art

A.



B.



C.

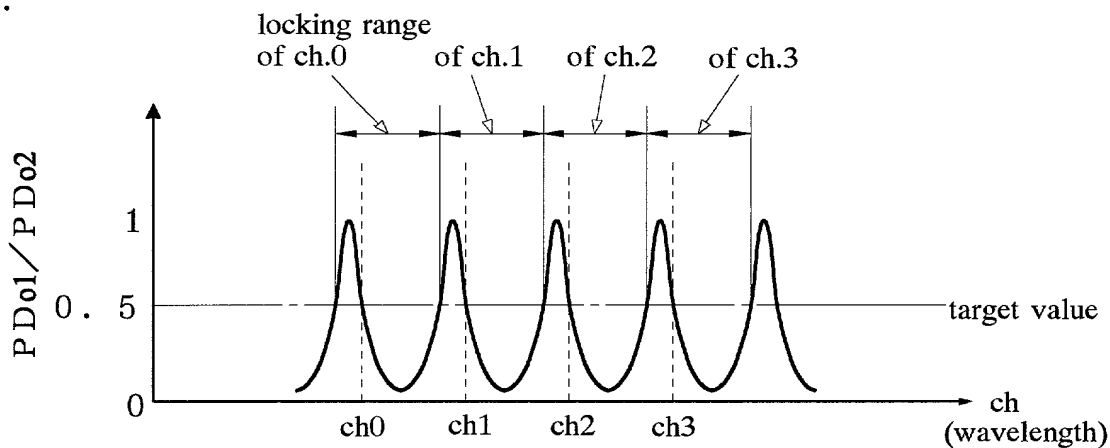


FIG. 2.2
Related Art

